

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/543,014	08/15/2006	Alison Ann Watson	3073.054	4048	
23405 7590 09/14/2010 HESLIN ROTHENBERG FARLEY & MESTTI PC 5 COLUMBIA CIRCLE			EXAM	EXAMINER	
			LOEWE, SUN JAE Y		
ALBANY, NY 12203			ART UNIT	PAPER NUMBER	
			1626		
			MAIL DATE	DELIVERY MODE	
			09/14/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/543,014	WATSON ET AL.	
Examiner	Art Unit	
SUN JAE Y. LOEWE	1626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

after - If NC - Failu Any	SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication re to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). reply received by the Office later hash three months after the mailing date of this communication, even if timely filed, may reduce any deplanted term solutions. See 30 CFR 1.74(b).
Status	
1)🛛	Responsive to communication(s) filed on 18 February 2010.
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.
Disposit	ion of Claims
4)🖂	Claim(s) 64-75 is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)⊠	Claim(s) <u>64-75</u> is/are rejected.
7)	Claim(s) is/are objected to.
8)□	Claim(s) are subject to restriction and/or election requirement.
Applicati	ion Papers
9)	The specification is objected to by the Examiner.
10)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d
11)	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority ι	ınder 35 U.S.C. § 119
12)	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)	☐ All b) ☐ Some * c) ☐ None of:
	1. Certified copies of the priority documents have been received.

Attachment(s)

Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(e) (PTO/SB/05)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date.

5) Notice of Informal Patent Application

6) Other:

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Paper No(s)/Mail Date

2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Page 2

Application/Control Number: 10/543,014

Art Unit: 1626

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 18, 2010 has been entered.

Response to Amendment

- The amendments to the claims filed on February 18, 2010 have been fully considered. The 35 USC 112 1st paragraph rejection has been overcome and is thus hereby withdrawn.
- The full scope of the claims has been searched and examined herein.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 64-75 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims refer to acyl derivatives. The term "derivative" is defined as organic compounds obtained from another compound by a simple chemical process or an organic compound containing a structural radical similar to that from which it is derived (Hackh's chemical

Art Unit: 1626

dictionary, 1972). Therefore, the term derivative renders the claims indefinite because the metes and bounds cannot be ascertained.

5. Claim 71 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim refers to derivatives. The term "derivative" is defined as organic compounds obtained from another compound by a simple chemical process or an organic compound containing a structural radical similar to that from which it is derived (Hackh's chemical dictionary, 1972). Therefore, the term derivative renders the claims indefinite because the metes and bounds cannot be ascertained.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.

Art Unit: 1626

- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 64-75 rejected under 35 U.S.C. 103(a) as being obvious over

Asano et al. in view of Immune-strategy.

Determination of the scope and contents of the prior art.

Asano et al. teaches compounds as a glycosidase inhibitor. Immunestrategy teaches glycosidase inhibitor in combination with ZDV for the treatment of HIV. Treatment of HIV encompasses treatment of bacterial infections that result from the disease

Ascertaining the differences between the prior art and the claims at issue.

The combined teaching of Asano et al. and Immune-strategy results in the method of treating bacterial infections. The following modification to the prior art compound results in the a non-elected species within the scope of the instant claims: replacement of methyl by hydrogen. Thus, the prior art compound is a homolog of species within the instant claims.

One of ordinary skill would be motivated, from the prior art disclosure to make the modification required to arrive at the instant invention with reasonable expectation of success for obtaining an additional compound for the same utility. Thus, the instant claims are *prima facie* obvious over the teaching of the prior art.

Resolving the level of ordinary skill in the pertinent art – Prima Facie Case of Obviousness.

To those skilled in chemical art, one homologue is not an advance over an adjacent member of a homologous series. The reason for this is that one of ordinary skill, knowing the properties of one member of series, would know what properties to expect in adjacent members. In re Henze, 85 USPQ 261 (1950). In re Wood, 199 U.S.P.Q. 137 (C.C.P.A. 1978) and In re Lohr, 137 U.S.P.Q. 548, 549 (C.C.P.A. 1963).

One of ordinary skill would be motivated to make the modification required to arrive at the instant invention with reasonable expectation of success. The motivation would be to utilize alternate compounds and methods for treatment of HIV

Thus, the instant claims are *prima facie* obvious over the teachings of the prior art.

Art Unit: 1626

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Art Unit: 1626

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claim 64-75 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-12, 28-31 and 36 of copending Application No. 10/597,290. Although the conflicting claims are not identical, they are not patentably distinct from each other for the reasons below.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Determination of the scope and contents of claims of copending application

The claims are drawn to method of immunotherapy using compounds instantly claimed.

Ascertaining the differences between claims of copending application and claims at issue

Embodiments anticipate the instant claims.

Resolving the level of ordinary skill in the pertinent art – Prima Facie Case of Obviousness.

MPEP § 2144.08.II.A.4(c) states "...consider teachings of a preferred species within the genus. If such a species is structurally similar to that claimed, its disclosure may motivate one of ordinary skill in the art to choose the claimed species or subgenus from the genus, based on the reasonable expectation that structurally similar species usually have similar properties". This is a "Genus-Species Guidelines" for the examination based on 35 U.S.C. 103. An analogous guideline was followed here for the analysis of obviousness-type double patenting.

Art Unit: 1626

The embodiments suggest to one of ordinary skill to practice the instant invention

8. Claim 64-75 provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 43-62 of copending Application No. 10/597,296. Although the conflicting claims are not identical, they are not patentably distinct from each other for the reasons below.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

<u>Determination of the scope and contents of claims of copending application</u>

The claims are drawn to method of immunotherapy using compounds instantly claimed.

<u>Ascertaining the differences between claims of copending application and claims at issue</u>

Embodiments anticipate the instant claims.

Resolving the level of ordinary skill in the pertinent art – Prima Facie Case of Obviousness.

MPEP § 2144.08.II.A.4(c) states "...consider teachings of a preferred species within the genus. If such a species is structurally similar to that claimed, its disclosure may motivate one of ordinary skill in the art to choose the claimed species or subgenus from the genus, based on the reasonable expectation that structurally similar species usually have similar properties". This is a "Genus-Species Guidelines" for the examination based on 35 U.S.C. 103. An analogous guideline was followed here for the analysis of obviousness-type double patenting.

The embodiments suggest to one of ordinary skill to practice the instant invention.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUN JAE Y. LOEWE whose telephone

Art Unit: 1626

number is (571)272-9074. The examiner can normally be reached on M-F 7:30-5:00 Est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571)272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sun Jae Y. Loewe/ 9-10-2010